

REMARKS

The applicants have herein amended the specification and each of claims 1, 6, and 9. In addition, the applicants are amending each of FIGs. 2, 3, and 5, which amended figures are attached hereto with the amendments highlighted in red.

Respectfully submitted,
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Version with Markings to Show Changes Made

Please make the following amendments to the paragraph beginning on page 6, line 32 of the specification:

In the preferred embodiment of the present invention each remote unit 113-118 may transmit utilizing the uplink supplemental channel. A decision is made as to which remote unit is providing a highest-voice-energy fundamental channel uplink, and that remote unit is assigned the uplink supplemental channel. For example, with reference to FIG. 1, uplink fundamental channel [107] 108 has the highest-voice-energy out of all uplink fundamental channels 103-108, since supplemental channel 111 has been assigned to remote unit 118. Thus in accordance with the preferred embodiment of the present invention a plurality of uplink transmissions are received from a plurality of remote units. A determination is made as to which remote unit has the highest uplink transmit energy, and that remote unit is assigned the high-data-rate uplink channel. This process repeats periodically, with new remote units constantly being assigned the high-speed-data channel based on their transmit energy. Thus in accordance with the preferred embodiment of the present invention at a later time a second plurality of uplink transmissions are received from the plurality of remote units, and a second remote unit is determined and assigned the supplemental channel as described above.

Please make the following amendments to each of claims 1, 6, and 9:

1. (Once Amended) A method for transmission within a wireless communication system, the method comprising the steps of:

receiving a plurality of uplink transmissions from a plurality of remote units;

determining a subset of the plurality of remote units, wherein the subset is determined based on an energy of an uplink transmission of each remote from the plurality of remote units;

combining uplink transmissions of the plurality of uplink transmissions that are associated with [for] the subset to produce a combined signal; and

transmitting the combined signal to a base station to be broadcast via a downlink communication signal to the plurality of remote units.

6. (Once Amended) A method for transmission within a wireless communication system, the method comprising the steps of:

receiving a first plurality of uplink voice transmissions from a plurality of remote units;

determining a second plurality of uplink voice transmissions from the first plurality of uplink voice transmissions, wherein the second plurality of uplink voice transmissions are associated with a subset of the plurality of remote units and are determined based on an energy of their transmission;

combining the second plurality of uplink voice transmissions; and

transmitting the combined uplink voice transmissions to a base station to be broadcast via a downlink voice channel to the plurality of remote units.

9. (Once Amended) An apparatus comprising:

a logic unit having a first plurality of uplink transmissions from a plurality of remote units as an input and outputting a second plurality of uplink transmissions taken from the first plurality of uplink transmissions, wherein the second plurality of uplink transmissions are associated with a subset of the plurality of remote units and are determined based on an energy of [their] each uplink transmission of the first plurality of uplink transmissions; and

a transcoder having the second plurality of uplink transmissions as an input and outputting a signal equivalent to the combination of the second plurality of uplink transmissions.